



SEEING IS BELIEVING

# MEGAPIX



**CAMERA SERIES BROCHURE**

*IP Network Cameras*



**VANDAL**



**INDOOR**



**BOX**



**PTZ**

## Full High Definition

delivers crystal clear 1080P HD resolution video images at 30 frames per second



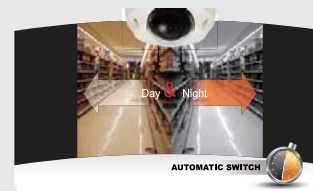
## WDR ( Wide Dynamic Range )

captures full range of details in both bright and dark environments simultaneously



## Day & Night

provides high quality low-light recording by analyzing the ambient light level to automatically switch between day/night mode



## OnVIF

( Open Network Video Interface Forum )

compliant with OnVIF standards for increased flexibility and reduced total cost



## Auto Focus

provides crisp and clear images at all times with its unique remote Auto-Focus Zoom



## PoE

( Power Over Ethernet )

simplifies installation by connecting both power and network through a single cable



## Simultaneous Dual Stream

Cameras can be set to record at high resolution when motion is detected and lower resolution at all other times



## 3D-DNR

produces less noise while also providing more color at night



Model #	Housing	Lens	Vandal	IR	Day/ Night	Optical Zoom	OnVIF	3D-DNR / WDR	SDHC / Audio
MPA20M	Armored	4.3mm Fixed	IP66	x	Electronic	x	•	•	x
MB721M4TIR	Bullet	4.0mm Fixed	IP66	50ft	TDN	x	•	•	SDHC Only
MB721M8TIR	Bullet	8.0mm Fixed	IP66	50ft	TDN	x	•	•	SDHC Only
MF21M4TIR	Vandal Dome	4.0mm Fixed	IP66	30ft	TDN	x	•	•	SDHC Only
MF21M8TIR	Vandal Dome	8.0mm Fixed	IP66	30ft	TDN	x	•	•	SDHC Only
MD412D / MD412DB	SnapIt Indoor	3.5~16mm	x	x	Electronic	X4.5	•	•	•
MD421TIR / MD421TIRB	SnapIt Indoor	3.5~16mm	x	70ft	TDN	X4.5	•	•	•
MV421D / MV421DB	SnapIt Outdoor	3.5~16mm	IP68	x	Electronic	X4.5	•	•	•
MV421TIR / MV421TIRB	SnapIt Outdoor	3.5~16mm	IP68	70ft	TDN	X4.5	•	•	•
MC421D	Color Box	Lens Sold Separately	x	x	Electronic	x	•	•	•
MB421TIR	Bullet	3.5~16mm	IP66	100ft	TDN	X4.5	•	•	•
MB421TIR650	Bullet	6~50mm	IP66	100ft	TDN	X8	•	•	•
MPTZ5X	Pan Tilt Zoom	5~25mm	IP66	x	TDN	X5	•	•	•
MPTZ20X	Pan Tilt Zoom	4.7~94mm	IP66	x	TDN	X20	•	•	•
MPTZ20XFM	Pan Tilt Zoom	4.7~94mm	x	x	TDN	X20	•	•	•
MB950TIR	Bullet	3.4~10mm	IP66	80ft	TDN	X3	•	•	•
MV950TIR	Vandal Dome	3.4~10mm	IP66	50ft	TDN	X3	•	•	•



## MEGAPIX Armored Dome



### MPA20M

- ONVIF Conformant Profile S
- 2.1 Megapixels [1080P, 30fps]
- Triple Codec with Simultaneous Dual-Stream
- 1/2.8" CMOS Sensor
- 4.3mm Fixed Lens, 8X Digital Zoom
- Power over Ethernet [PoE] & DC 12V
- IP66 Certified [Weatherproof]
- Web Server Built-in
- 3D-DNR [3D Digital Noise Reduction]
- Programmable Privacy Zones [16] & Motion Detection

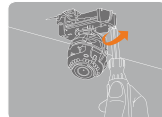
### Specifications

IMAGE	
Image Sensor	1/2.8" CMOS (7% Larger Than 1/3" CMOS)
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.8 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.3mm Fixed Lens
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super, Fine, Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Internet Explorer, Chrome, Firefox, Safari
Supported Software	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exacq
ENVIRONMENTAL	
IP Rating	IP66 [Protects Against Dust & High Pressure Water]
Other Certifications	CE, FCC, RoHS

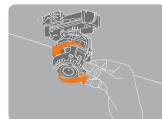
## MEGAPIX Snapit Indoor Dome



### Snapit Easy Installation



1 Two Screw Installation



2 Adjustment



3 Snap It

### MD421D / MD421TIR MD421DB / MD421TIRB

- ONVIF Compliant Profile S
- 2.1 Megapixels [1080P, 30fps], 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.5~16mm Auto Focus Lens
- 8X Digital Zoom, 4.5X Optical Zoom
- 70ft Range Smart IR with True Day & Night [IR Models]
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- WDR & 3D-DNR Configuration

### Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	3.5-16mm, Remote Auto Focus
Digital Zoom / Optical Zoom	8X / 4.5X
IR Distance	70ft Smart IR
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine~Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Supported Software	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exacq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*

## MEGAPIX Snapit Outdoor Vandal



### Snapit Easy Installation



1 Built-in Junction Box Installation



2 Snap It



3 Adjustment



4 Cover

### MV421D / MV421TIR MV421DB / MV421TIRB

- ONVIF Compliant
- 2.1 Megapixels [1080P, 30fps], 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.5~16mm Auto Focus Lens
- 8X Digital Zoom, 4.5X Optical Zoom
- 70ft Range Smart IR with True Day & Night [IR Models]
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- IP68 Certified, Junction Box Built-in
- Web Server Built-in
- WDR & 3D-DNR Configuration

### Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor (7% Larger Than 1/3" CMOS Sensor)
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	3.5-16mm, Remote Auto Focus
Digital Zoom / Optical Zoom	8X / 4.5X
IR Distance	70ft Smart IR
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine~Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS By OnVIF: Milestone, OnSSI, Exacq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP68 (Protects against dust and immersion beyond 3ft.)
Other Certifications	CE, FCC, RoHS

\*Specifications are subject to change without prior notice



### MC412D

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps)
- Triple Codec with Simultaneous Dual-Stream
- 1/2.8" CMOS Sensor
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- Web Server Built-in
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (16) & Motion Detection
- Compatible with C or CS Mount Lens

### Specifications

IMAGE	
Image Sensor	1/2.8" Sony CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine-Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
	By OnVIF: Milestone, OnSSI, Exacq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 [Weatherproof]
Other Certifications	CE, FCC, RoHS

## MEGAPIX Bullet Housing



### MB421TIR / MB421TIR650

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Streams
- 100ft Smart IR with True Day & Night
- 3.5~16mm or 6~50mm Remote Auto Focus Lens
- Power over Ethernet [PoE] & DC12V
- Two-Way Audio, Local SDHC Card Remote Backup
- IP66 Certified, No Fog or Condensation under Any Weather Conditions
- Web Server Built-in
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (16) & Motion Detection

### Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	3.5~16mm / 6~50mm, Remote Auto Focus
Digital Zoom / Optical Zoom	8X / 4X
IR Distance	100ft Smart IR
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine-Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
	By OnVIF: Milestone, OnSSI, Exacq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS

## MEGAPIX PTZ (20x) 2.1 Megapixel



### MPTZ20X (purchase with: P39PM, P39WM, P39SPM) MPTZ20XFM

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec, Simultaneous Multi Stream
- 4.7~94mm Varifocal Auto Iris Lens
- 20X Optical Zoom with Auto Focus, 12X Digital Zoom
- Auto Day and Night with IR Cut Filter
- Pan 0~360° Endless, 360° Per Second Pan Speed
- Vector Drive Technology (Pan/Tilt Motion in Shortest Path)
- 128 Preset Positions, 4 Patterns, 8 Swings, 8 Groups
- IP66 Certified [Heater and Fan Built-in]
- Power over Ethernet [PoE Power Injector] & 24VAC

### Specifications

IMAGE	
Image Sensor	1/2.8" Sony CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.7~94mm, Auto Focus
Digital Zoom / Optical Zoom	12X Digital, 20X Optical
Maximum Aperture Ratio	F1.6~F3.5
AUDIO	
Compression and Sampling Rate	G.711 (8KHz); AAC (48KHz)
Input / Output	1 Line In and 1 Line Out Mono
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super, Fine, Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3) at 30fps
ONVIF Conformance	Yes
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
	By OnVIF: Milestone, OnSSI, Exacq
Memory Slot	Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS



## MV950TIR

- 5 Megapixels (2592x1920, 10fps), 1/2.5" 5MP CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.4~10mm Varifocal Lens, 3X Optical Zoom
- 50ft IR with Intelligent Camera Sync, TDN
- Power over Ethernet [PoE] & 8~25VDC, and AC24V
- Two-Way Audio, Micro SD/SDHC Class 10 Card for Local Recording
- IP66 Certified (Weatherproof)
- Local & Network Backup to SD Card, FTP Server, or NAS
- DNR (Digital Noise Reduction)

## Specifications

IMAGE		
Image Sensor	1/2.5" 5MP CMOS Sensor	
LENS		
Focal Length & Lens Type	3.4~10mm, Varifocal/ DC- Iris	
IR Distance	50ft Range IR	
AUDIO		
Compression & Sampling Rate	G.711/ G.726/ AAC	
Input / Output	Built-in Microphone, 1x Line In and 1x Line Out	
OPERATIONAL		
Alarm Actions	File Upload via FTP and E-mail, E-mail Notifications with Snapshot attachment, External Output Activation, File Recording to SD Card, Remote FTP or NAS	
NETWORK		
Video Compression Type	DW Optimized Firmware	Full Firmware Option
Resolution	H.264	H.264, MPEG4, MJPEG
Frame Rate	10fps @ 2560x1920 (5MP)	10fps ~ 30fps @ 2592x1920(5MP) / 2048x1536(3MP) / 1920 x1080(2MP)
Video Management	Up to 10fps	30fps based on Resolution
Memory Slot	DW Spectrum, I.E. 8 or Higher, Chrome, Firefox, Safari	
	Micro SDHC Card (4GB-32GB) Card Not Included*	
ENVIRONMENTAL		
IP Rating	IP66 (Protects against dust and high pressure water)	

# MEGAPIX 5 Megapixels Bullet



## MB950TIR

- ONVIF Compliant Profile S
- 5 Megapixels (2592x1920, 10fps), 1/2.5" 5MP CMOS Sensor
- Triple Codec with Simultaneous Dual-Stream
- 3.4~10mm Varifocal Lens, 3X Optical Zoom
- 80ft IR with Intelligent Camera Sync, TDN
- Power over Ethernet [PoE] & 8~25VDC, and AC24V
- Two-Way Audio, Micro SD/SDHC Class 10 Card for Local Recording
- IP66 Certified (Weatherproof)
- Local & Network Backup to SD Card, FTP Server, or NAS
- DNR (Digital Noise Reduction)

## Specifications

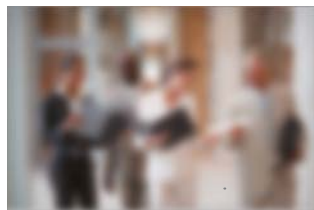
IMAGE		
Image Sensor	1/2.5" 5MP CMOS Sensor	
LENS		
Focal Length & Lens Type	3.4~10mm, Varifocal/ DC- Iris	
IR Distance	80ft Range IR	
AUDIO		
Compression & Sampling Rate	G.711/ G.726/ AAC	
Input / Output	Built-in Microphone, 1x Line In and 1x Line Out	
OPERATIONAL		
Alarm Actions	File Upload via FTP and E-mail, E-mail Notifications with Snapshot attachment, External Output Activation, File Recording to SD Card, Remote FTP or NAS	
NETWORK		
Video Compression Type	H.264	Full Firmware Option H.264, MPEG4, MJPEG
Resolution	10fps @ 2560x1920 (5MP)	10fps ~ 30fps @ 2592x1920(5MP) / 2048x1536(3MP) / 1920 x1080(2MP)
Frame Rate	Up to 10fps	30fps based on Resolution
Video Management	DW Spectrum, I.E. 8 or Higher, Chrome, Firefox, Safari	
Memory Slot	Micro SDHC Card (4GB-32GB) Card Not Included*	
ENVIRONMENTAL		
IP Rating	IP66 (Protects against dust and high pressure water)	

## IP Technology



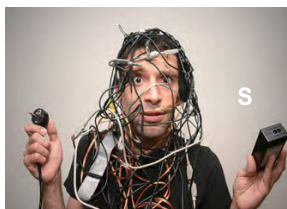
### Remote Auto Focus and Optical Zoom

Using a delicate powerful zoom lens controller from the camera's web-based UI, the camera provides crisp and clear images at all times with its unique remote Auto-Focus zoom.



### PoE [Power Over Ethernet]

This feature enables the camera to receive power via the same network cable it uses to transmit data. This simplifies the installation process, requiring only a single cable to power up, configure, and control your camera.



### Micro SD Card Support



MEGAPIX cameras come with a built-in micro SD card slot for emergency backup. When the camera detects network loss, it will start recording locally.

### TRIPLE CODEC



Real-time H.264, MPEG-4 and MJPEG Compression

### Two-Way Audio



The MEGAPIX Cameras support two-way Audio for communications running between the camera's web-based UI and the camera's location.



## MB721M4TIR / MB721M8TIR

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Streams
- 50ft Smart IR with True Day & Night
- 4.0mm or 8.0mm Fixed Lens
- Power over Ethernet [PoE] & DC12V
- Local SDHC Card Remote Backup
- IP66 Certified, No Fog or Condensation under Any Weather Conditions
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (16) & Motion Detection

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.0mm / 8.0mm, Fixed Lens
Digital Zoom	12X
IR Distance	50ft Smart IR
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine~Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
Memory Slot	By OnVIF: Milestone, OnSSI, Exacq Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS



## MF21M4TIR / MF21M8TIR

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec with Simultaneous Dual-Streams
- 30ft Smart IR with True Day & Night
- 4.0mm or 8.0mm Remote Auto Focus Lens
- Power over Ethernet [PoE] & DC12V
- Local SDHC Card Remote Backup
- IP66 Certified
- WDR & 3D-DNR Configuration
- Programmable Privacy Zones (30) & Motion Detection

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	2016 (H) X 1108 (V)
Minimum Scene Illumination	F1.6 (30IRE): 0.5 Lux [Color] F1.6 (30IRE): 0.01 Lux [B&W]
LENS	
Focal Length	4.0mm / 8.0mm, Fixed Lens
Digital Zoom	12X
IR Distance	30ft Smart IR
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine~Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
Web Viewer	Browser: Internet Explorer, Chrome, Firefox, Safari
Video Management	DW Spectrum IPVMS
Memory Slot	By OnVIF: Milestone, OnSSI, Exacq Up to 32GB Micro SDHC Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Weatherproof)
Other Certifications	CE, FCC, RoHS



## MPTZ5X

- ONVIF Compliant Profile S
- 2.1 Megapixels (1080P, 30fps), 1/2.8" CMOS Sensor
- Triple Codec, Simultaneous Multi Stream
- 5~25mm Zoom Lens
- 5X Optical Zoom with Auto Focus, 12X Digital Zoom
- Auto Day and Night with IR Cut Filter
- Pan 0~350° Endless, 120° Per Second Pan Speed
- Vector Drive Technology (Pan/Tilt Motion in Shortest Path)
- 255 Preset Positions, 4 Patterns, 8 Swings, 8 Groups
- IP66 Certified
- Power over Ethernet [PoE Power Injector] & DC12V

## Specifications

IMAGE	
Image Sensor	1/2.8" CMOS Sensor
Effective Pixels	1920 (H) x 1080 (V)
Minimum Scene Illumination	F3.5 (50IRE): 4.6 Lux [C], F3.5 (50IRE): 1.5 Lux [B&W]
LENS	
Focal Length	5~25mm, F3.5 ~ F3.7, Zoom Lens
Digital Zoom / Optical Zoom	12X / 5X
Pan Tilt Zoom	
Range	350° Pan, 90° Tilt
Preset	255
Sequence	4
Swing	8, 8.1°~120°/Sec
Tour	8 (Max 20 Entries Per Tour)
Speed	Preset : 120°/sec, Manual : MAX 120°/sec
NETWORK	
Video Compression Type	H.264, MPEG4, MJPEG (Super Fine ~ Low)
Resolution	1920X1080 (16:9) ~ 320X240 (4:3)
Frame Rate	Up to 30fps at All Resolutions
Maximum User Access	5 Users
Web Viewer	OS: Windows XP / Vista / 7, MAC OS
Video Management Software	Browser: Internet Explorer, Chrome, Firefox, Safari
Memory Slot	DW Spectrum IPVMS 24 hours recording to Micro SDHC Card (32GB Recommended) Card Not Included*
ENVIRONMENTAL	
IP Rating	IP66 (Protects against dust and high pressure water)
Other Certifications	CE, FCC, RoHS